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NPIC/TSG-023/70 2 0 JUL 1970

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MEMORANDUM FOR: Director, National Photographic
Interpretation Center

SUBJECT: Request for Approval of Personal Services
Contract for Consultation in Visual Perception with

from FY-1971 R&D Funds

- 1. This memorandum requests approval for the commitment of R&D funds for a contract. The specific request is stated in Paragraph 6.
- The fields of visual perception, perceptual training, and physiological optics are becoming increasingly important to research on imagery interpretation. The definition and improvement of human performance in the Center exploitation process is becoming more and more critical as production requirements expand. This expansion of the demands made upon the photo interpreter promises to continue in the future. It requires that the interpreter's total interaction with the imagery he analyzes be thoroughly appraised. One of the key factors in this appraisal must be the workings of the human visual system in conjunction with the specific Center environment. Included in this environment are imagery characteristics, auxiliary optical instruments, and display and ambient lighting conditions. Dr. expertise in these and related visual research areas has been an invaluable adjunct in the past to Research & Engineering Division's coordination of optical equipment development and human factors studies of PI vision. His continuing advisory services are deemed extremely desirable.
- 3. ______ consultation services will be employed on a periodic basis in conjunction with both specifically scheduled projects as well as with special problems as they may occur. His communication will be primarily with Research & Engineering Division's human factors personnel but will also be available to other Center components where appropriate. Specific consultation tasks planned for ______ during the course of this proposed 12 month contract include the following:

GROUP 1

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Declass Review by NGA

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SUBJECT: Request for Approval of Personal Services Contract for Consultation in Visual Per- ception with from FY-1971 R&D Funds	25X1 25X1
a. Guidance to Advanced Technology Branch Human Factors Section personnel on the implementation of advance stereo acuity and color vision tests for Center interprete and photogrammetrists;	
b. Assistance to Engineering Support Division Test and Evaluation Branch personnel during their in-house assessments of newly delivered PI equipment where optical/ visual parameters influence acceptance decisions;	•
c. Participation with in the planning of an empirical study using the Wide Field High Power Stereo Viewer to determine the influence upon interpreter output of microscope field of view;	25X1 25X1 25X1
d. Direct assistance to the conducted Viewing Systems Study in which the specification of standardized optical system parameters must include consideration of the user's visual characteristics;	; ;
e. Guidance to the Precise Mensuration Study where comparator design parameters such as magnification, illumination, and reticle configuration are functions of operator visual performance; and	25X1
f. Aid to the Color Training Program in which knowledge of the state-of-the-art of color vision and perceptual training will play a vital role.	25X1
4. Consultation efforts by	25X1

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Cont	t for Approval of Personal Services ract for Consultation in Visual Per- ion with from FY-1971 RED Funds	25X 25X
has be	Purthermore, the direct liaison which Dr. een able to perform on our behalf with selected in the academic world has been, and will coninvaluable asset to the Center.	
in convergetata	for this contract. The sterility code, for this work; the Project Officer will assign fications to the reports.	25X′ 25X′
6. It is a for a a cost not to ex	requested that the negotiation with contract to conduct the program described at ceed from Category I R&D Funds be approved	ed.
	Chief, Technical Services Group,	25X^
Attachments: 1. Proposal 2. Form 2420	3 0 JUL 19	25X1
APPROVED:	ARTHUR C. LUNDANI. Director Onal Photographic Interpretation Center	
Distribution: Original - NI 1 - NI 2 - NI	PIC/SS/SC&P PIC/ODIT PIC/TSG	

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